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## SHORTER NOTES

A TERATOLOGICAL NOTE ON TIMOTHY.—The usual farm crops afford many instances of double (and sometimes triple) fruits. Such specimens of red clover and field corn are rather common. I have never noticed such abnormalities in timothy, however, until this year, when a partially double head of timothy was found in our lane. The whole head is 7.6 cm. long, being single for 4 cm. of its length and having the upper part divided into two stalks of 3.6 cm. each. The upper divisions are almost equal in diameter to the basal part, and are fully fruited, except occasionally on the inner sides. The divisions diverge at an angle of 35 degrees.

H. R. ROMINE.

ABNORMALTIES IN THE RADISH, CLOVER, AND ASH.—Several seedlings of the radish grown by our students this year in their seed germination studies had one cotyledon some distance below the other; in one instance the cotyledons were 3 cm. apart. A specimen of white clover, *Trifolium hybridum*, was found along the roadside this June with seven large flowerets 2.3 cm. below the head itself. The flowerets of the head were perhaps not so numerous as usual. From an American ash tree near our school buildings I picked several leaves which to me seemed very unusual. There were two sets of leaflets instead of one set at the nodes along the rachis; some had three pairs of such doubles instead of three pairs of leaflets.

EMMELINE MOORE.

NEW JERSEY STATE NORMAL SCHOOL.

## REVIEWS

## Knuth's Handbook of Flower Pollination\*

The first volume of this series containing 381 pages and 81 figures appeared last year. It considers the modes of pollination and the types of flowers and their insect visitors, special attention being given to their structure and mutual adaptability.

\* Knuth, Paul. Translated by J. R. Ainsworth. Volume II, Handbook of Flower Pollination, Large 8vo, viii + 703. f. 1-210. 1908. Oxford, Clarendon Press. Cloth 31s. 6d. Half morocco, 35s. net.